

PUBLICATION NUMBER : 06093856
PUBLICATION DATE : 05-04-94

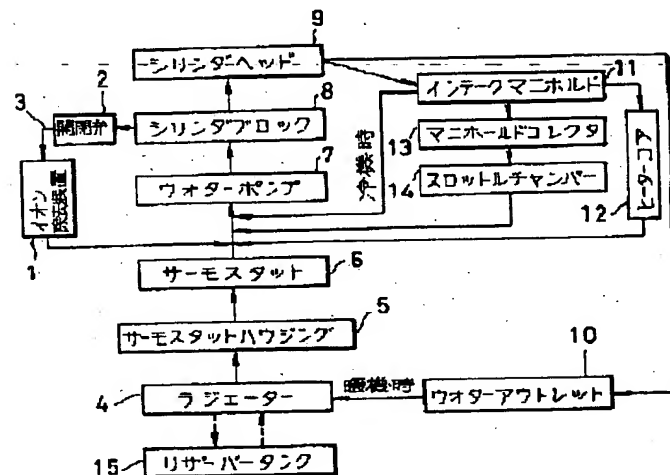
APPLICATION DATE : 10-09-92
APPLICATION NUMBER : 04241501

APPLICANT : NISSAN MOTOR CO LTD;

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INT.CL. : F01P 11/06 F02F 1/10

TITLE : COOLING DEVICE OF ENGINE



ABSTRACT : PURPOSE: To surely prevent etching of magnesium alloy parts in an engine brought in contact with cooling liquid by forming a branch cooling liquid passage branching from the cooling liquid passage of the engine, and arranging inside the passage a device for eliminating ion in the cooling liquid.

CONSTITUTION: Magnesium alloy of a light weight and excellent oscillation- resistance is used in an engine for its parts in contact with cooling liquid, for example, a cylinder block 8 and a cylinder head 9. In this case, a branch cooling liquid passage 3 branching from the cylinder block 8 is arranged inside a cooling liquid passage. A valve 2 which opens and closes by detecting a temperature of the cooling liquid, and a device 1 for eliminating ion generated in the cooling water are arranged in the branch cooling liquid passage 3. The cooling liquid from the cylinder head 9 is circulated through the branch cooling liquid passage 3, the cylinder block 8, an ion eliminator 1, and a water pump 7, in accordance with opening of the opening/closing valve 2. Consequently, the ions in the cooling liquid are eliminated, and etching of the magnesium alloy is prevented.

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